



## Gulf of Mexico Harmful Algal Bloom Bulletin

21 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 21, 2005

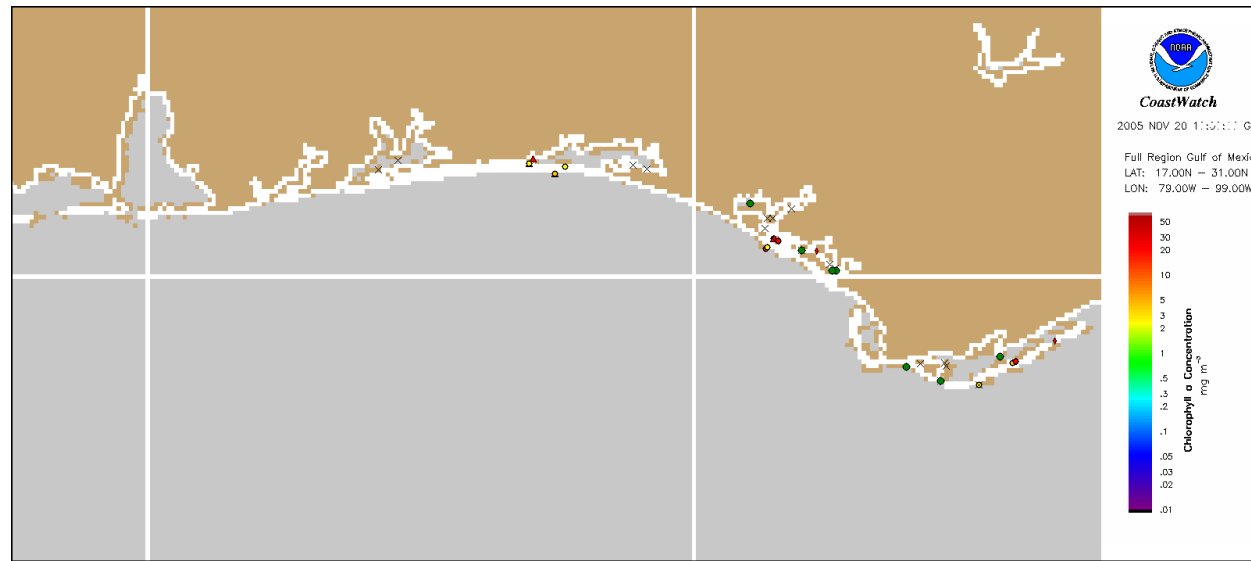
**Conditions:** Harmful algal blooms have been identified in patches along SW Florida from Pinellas to mid Collier County and from Dixie to Levy County. Patchy moderate to high impacts are possible in northern Lee, Sarasota, and Dixie Counties through Wednesday, with patchy low to moderate impacts possible in Levy, Manatee, and Charlotte Counties. Very low impacts expected in Pinellas and Collier County through Wednesday. A second bloom has been identified in patches in Okaloosa, Bay, Franklin, and Wakulla Counties. Patchy low to moderate impacts possible from Okaloosa to Bay County, with very low impacts likely from Gulf to Wakulla County. Dead fish have been reported in Pinellas, Walton, and Okaloosa Counties over the last week. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as harmful algal blooms.

**Analysis:** The bloom remains in patches along the Florida panhandle. Low concentrations of *K. brevis* were reported in Wakulla, Franklin, Bay, and Okaloosa Counties 11/14-17 (FWRI). Clouds have obscured bloom extent since Thursday, but a wind transport model indicates the bloom may have moved up to 120km west since Thursday. Very low counts of *K. brevis* were reported 11/15 (Alabama Dept. of Public Health) at Alabama Point and Fort Morgan. Continued sampling recommended. Westerlies to northwesterlies this week are likely to halt westward transport of the bloom, and increase beach impacts from Okaloosa to Bay County.

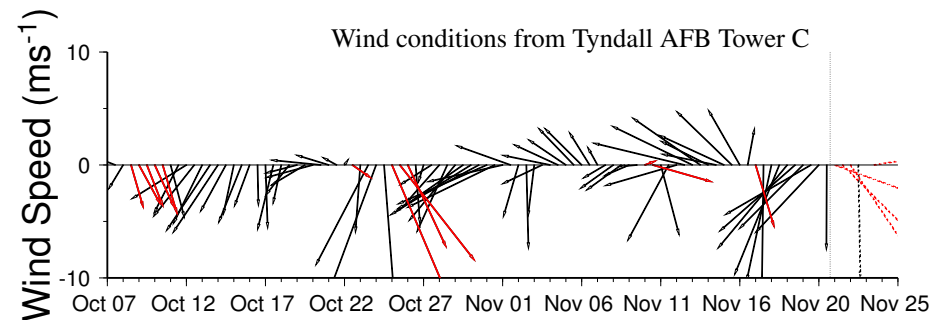
-Stolz, Fisher

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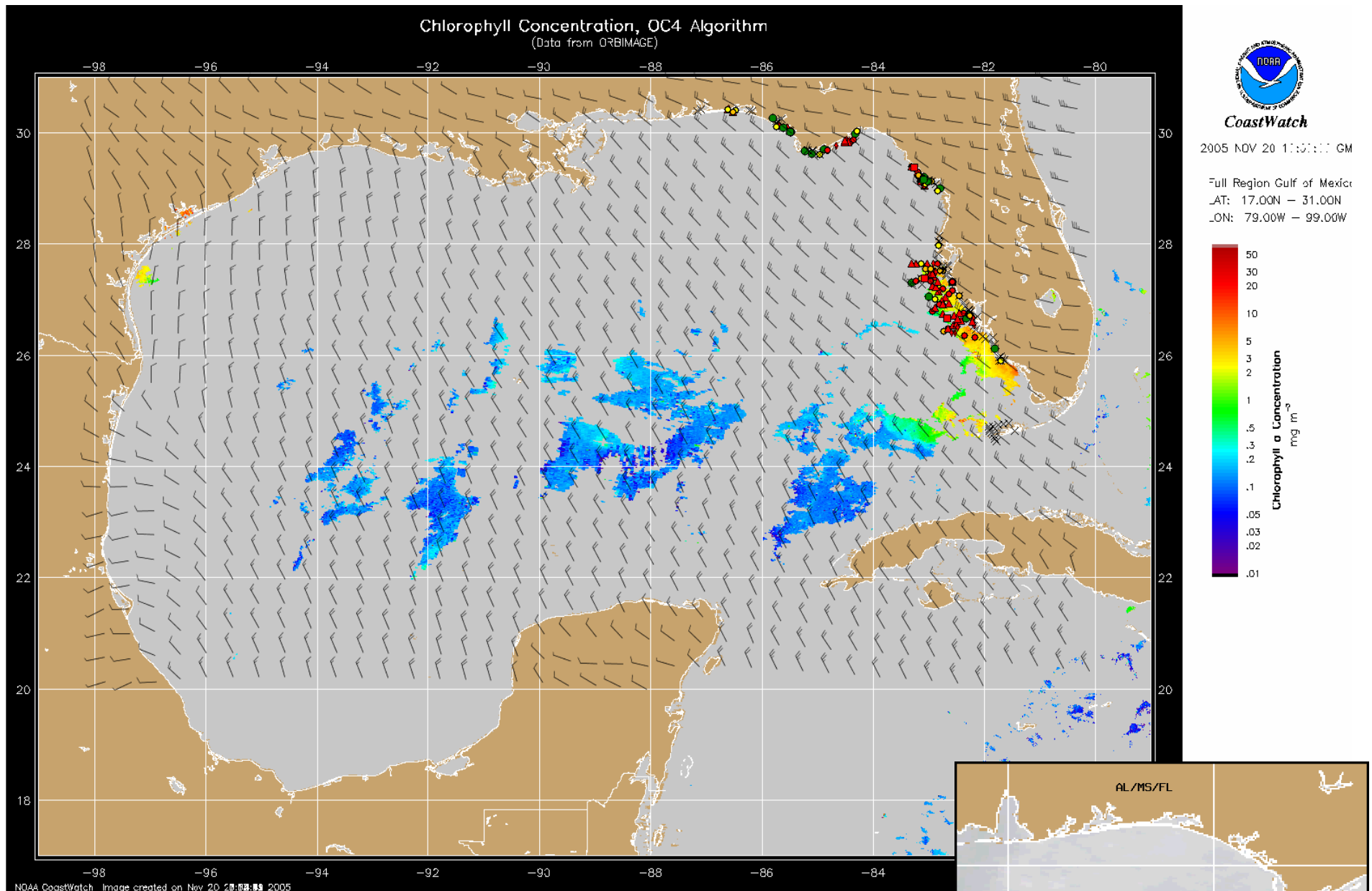


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Fl Panhandle: Westerly winds 20-25 knots (10-13 m/s) today, becoming northwesterly tonight through tomorrow night, and decreasing to 15-20 knots (8-10 m/s). Westerly winds Wednesday, becoming northerly Thursday.



Chlorophyll concentration from satellite and forecast winds for November 22, 2005 12Z with cell concentration sampling data from November 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

